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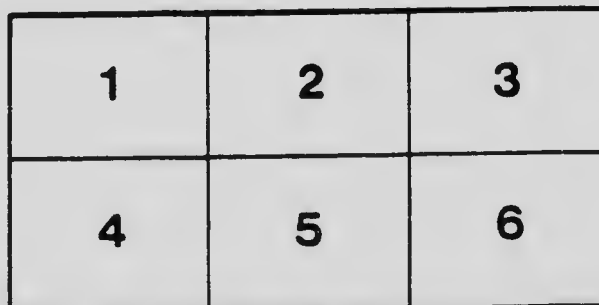
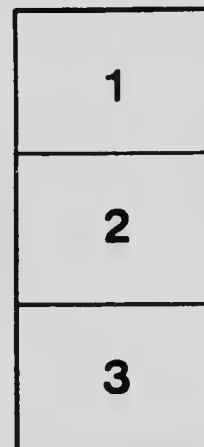
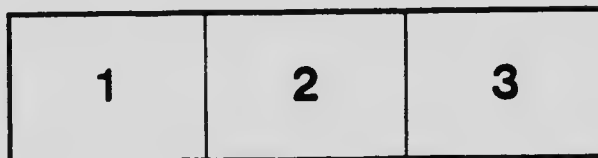
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LABORATORY
OF THE
INLAND REVENUE DEPARTMENT

OTTAWA, CANADA

BULLETIN No. 403

GROUND ALLSPICE

LABORATORY
OF THE
INLAND REVENUE DEPARTMENT

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BULLETIN No. 403

GROUND ALLSPICE

OTTAWA, May 20, 1918.

J. U. VINCENT, Esq., K.C., B.A., L.Ph.,
Deputy Minister of Inland Revenue.

SIR,—I beg to hand you a report upon 188 samples purchased for Allspice, by our inspectors throughout Canada, between August and November of last year. Instructions were issued to purchase Allspice only, but through mistakes on their part, certain inspectors have obtained other spices, so that the report actually comprises the following:—

Ground Allspice.....	164 samples.
Cayenne Pepper.....	10 "
Paprika	5 "
Mixed Spices (ground)	3 "
" (whole).....	6 "
	188 "

Allspice, Pimento or Jamaica Pepper, has never been systematically examined in these laboratories. A few samples (16) were reported among other spices, in February, 1904 (Bulletin No. 95).

Attention has recently been called to the matter by advices of the importation into Canada of Allspice described as "Spent" in the sense that the characteristic volatile oil, to which Allspice owes its value, had been more or less fully removed by extraction. A sample of this material, representing Customs Entry No. E, 14764C = Toronto, showed on analysis:—

Volatile Oil.....	1.72 per cent.
Fixed Oil.....	6.46 "
Total Alcohol Extraction.....	11.30 "

The following description of Allspice is quoted from Parry, Foods, and Drugs, p. 227, and Leach, Food Inspection, p. 421:—

"Allspice, Pimento or Jamaica Pepper is the dried, fully grown unripe fruit of "Pimenta officinalis", a small evergreen tree native to the West Indies and cultivated, especially in Jamaica. It was recognized as official in the British and other pharmacopoeias, but was omitted from the former in the edition of 1914.

The fruits are dark reddish brown, hard and globular, measuring 3 to 8 millimeters in diameter. They have a wrinkled woody pericarp on the surface of which are numerous oil cells containing essential oil, which gives the spice its characteristic flavour.

The aroma of allspice is less pungent than that of other spices, but is like cassia and cloves. The oil resembles clove oil. In chemical composition allspice resembles cloves, also in containing a large amount of tannin, but differs in containing much starch.

STANDARD.

We have no standard for Canada.

U. S. standard requires:

Not less than 8 per cent quercitannic acid.

Not more than 6 per cent ash.

Not more than 0.5 ash insol. in hydrochloric acid.

Not more than 25 per cent crude fibre.

CHEMICAL ANALYSIS.

There are very few authoritative full analyses available. Following are limits given by Parry (A) and by Leach, for 22 genuine ground samples (B) and 4 whole (C).

	A		B		C	
Ash total.....	4.0	5.5	3.45	7.51	4.4	4.7
..... soluble.....	50%					
.....		0.2				
Essential oil.....	3.0	6.5	1.34	3.5	3.38	5.21
Fibre.....	4.0	6.2	3.77	6.92	4.35	7.72
Tannin.....	8	13				

RESULTS ON THE COLLECTION NOW REPORTED.

Ash.

All the samples meet the U.S. standard except No. 78944, 11.25%.

Ether Extract=

Non-volatile—

Parry gives 4.0 - 6.2
Leach quotes 3.77 - 6.92 for ground.
4.35 - 7.72 for whole.

A large number of samples have higher non-volatile extractive than 6.2.

Halifax..... 3 samples.
Winnipeg..... 10 "
Ottawa..... 30 "
Vancouver..... 11 "

41681-1½

The following have 7.0% and upward.

	Number.	
Halifax.....	76726	7.33
Ottawa.....	78936	7.1
".....	78937	7.1
".....	78939	7.0
".....	80415	7.4
".....	79924	7.4
".....	80884	7.0
".....	80885	7.6
".....	80872	7.1
Winnipeg.....	79559	7.15
".....	79562	7.3
".....	79563	7.35
Vancouver.....	68498	7.35

Volatile extractive—

Parry says 3.0 to 6.5 per cent but quotes 1.64 to 3.67 for samples known to be pure (*loc. cit.*, p. 224).

Leach says 3.0 to 4.5 but quotes 1.34 to 3.5 for 22 genuine ground samples and up to 5.21 for whole.

The following samples have more than 4.5 volatile extractive.

	Number.	
Winnipeg.....	78527	4.60
".....	78533	5.25
".....	52756	5.0
".....	79554	5.6
".....	79563	4.8
".....	79590	4.8

Eight samples have less than 1.3 per cent with the following analyses, all done at Ottawa.

ETHER EXTRACT.

Number.	Volat.	Non-vol.	Total.	Tannic Acid.
79959.....	1.03	7.04	8.07	7.7
78944.....	0.41	2.59	3.0	3.6
78945.....	1.22	6.52	7.74	8.7
78842.....	1.23	4.39	5.62	9.8
79925.....	1.2	5.4	6.6	9.8
80884.....	1.2	7.05	8.25	8.4
65280.....	1.2	5.0	6.2	9.7
78670.....	0.9	6.3	7.2	9.2

Number 78944 contains shells. The others meet the U.S. requirements for tannic acid (8 per cent) (78939 = 7.7 per cent).

The method used here was precisely as given in U.S.A. Bulletin 107 (Revised) p. 163. Extraction with ether that had been washed with water and dried over sodium; evaporation of the ether at room temperature, drying 18 hours over sulphuric acid and weighing for total and heating to constant weight at 110° C. for non-volatile.

There is certainly some loss of volatile matter, shown by discoloration of the acid of the desiccator. However, a constant weight is reached in the time given and experiment showed no further loss of weight in a week. Somewhat numerous check

determinations show fair agreement for total extractive. The range of variation is 0.5 per cent and less. But there is the same or even greater variation in the figures for volatile extractive. This is so large relatively to the small amount present as to compromise the determination utterly for any precise use. (It may be surmised that the omission of extractive from the U.S. standard may be due to its extreme variability.) The use of commercial ether gives values 0.7 to 2.25 higher for total and non-volatile, apparently not affecting the volatile.

Quercitannic acid.

Parry states 8 to 13 per cent.

U.S. standard: Not less than 8 per cent.

The determination was made at this laboratory only.

Method used is given in U.S.A. Bulletin 107, p. 164. (Löwenthal.)

18 samples gave *slightly* less than 8 per cent.

Number.	p. c.	Number.	p. c.
78939	7.7	79929	6.9
78941	7.7	79930	7.8
78942	7.7	80818	7.0
78944	7.2	80825	7.4
78850	7.2	80881	7.7
80414	6.9	80886	7.7
79921	7.1	80887	7.4
79922	7.9	78653	7.7
79923	7.4	78664	7.7

4 samples gave *markedly* less than 8 per cent.

Number.	p. c.	
78937	5.9	Only allspice tissues detected.
78944	3.6	Contained coconut shells.
79924	5.1	Contained some ground shells.
80821	5.5	Was a mixture of spices.

The work above reported was mainly done by Mr. V. Kitto, assisted by Mr. L. E. Johnson of this staff; and it should furnish your Advisory Board with data upon which to draw up specifications for definition of this spice.

Three samples are found to be adulterated under Section 3 (a) and (b) namely:

No. 71287, Paprika, containing maize starch.

No. 78944, Allspice, containing foreign shells.

No. 79924, Allspice, containing foreign shells.

In the last named sample, the amount of foreign matter is small, and may possibly have been introduced accidentally.

I beg to recommend publication of this report as Bulletin No. 403.

I have the honour to be, Sir,
Your obedient servant,

A. MCGILL,
Chief Analyst.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NOVA SCOTIA—

1917							
Oct. 16	Allspice ...	76726	John P. Mott & Co., Halifax.	3 pkgs	30	Vendors.....	
" 17	"	76727	Wentzells, Ltd., Halifax...	3 "	18	White Swan Mfg. Co., Toronto.	Mfrs.
" 17	"	76728	W. H. Schwartz & Sons, Halifax.	3 "	10	Vendors.....	
Nov. 1	"	76729	Forsyth, Jr., Dartmouth ...	3 "	30	MacLaren's Ltd., Hamilton.	Mfrs. Agent....
" 1	"	76730	P. Kuhn, Dartmouth.....	3 "	30	Herron Leblanc, Montreal.	Unknown.....
" 9	"	76731	Nat. Drug & Chem. Co., Halifax.	3 "	16	Vendors.....	

DISTRICT OF NEW BRUNSWICK—

Sept. 6	Allspice....	78121	W. A. Simonds, St. John, N.B.	3 pkgs	30	Dalloy's, Ltd., Hamilton.	
" 6	"	78122	Dearborn & Co., St. John, N.B.	3 "	15	Vendors	
" 7	"	78123	Geo. E. Barbour Co., Ltd., St. John, N.B.	3 "	15	"	
" 7	"	78124	Puddington, Wetmore & Morrison, St. John, N.B.	3 "	14	"	
" 19	"	78425	E. W. Rowley, St. John, N.B.	1/4 lb.	38	L. H. Thorne, St. John.	
Oct. 18	"	78126	John McAllister, St. John, N.B.	3 pkgs	30	John P. Mott & Co., Halifax.	
Nov. 6	"	78127	G. T. Whelpley, Fredericton, N.B.	3 tins.	30	Pure Gold Mfg. Co., Toronto.	
" 7	"	78128	H. M. DeWitt, Woodstock, N.B.	3 pkgs	36	H. W. Cole, Ltd., St. John, N.B.	
" 13	"	78129	Inches & Grimmer, St. Stephen, N.B.	1/4 lb.	30	Gorman Eckert Co., London.	
" 13	"	78130	Boyd Bros., St. Stephen, N.B.	3 pkgs	40	Geo. E. Barbour Co., Ltd., St. John.	

DISTRICT OF QUEBEC CITY—

Aug. 27	Piment (Allspice).	71285	Jos. Masson, 806 Rue St. Valier, Quebec.	1/4 lb.	45	Unknown.....	Dr. Ed. Morin & Cie.
" 28	"	71286	J. Art. Bedard, 728 Rue St. Valier, Quebec.	1/4 "	60	Litster Pure Food Co., Toronto.	
" 28	"	71287	Pharmacien National, 753 Rue St. Valier, Quebec.	1/4 "	30	Unknown.....	Unknown.....
" 29	"	71288	J. J. Papin, 182 Rue Masson, Quebec.	1/4 "	53	"	Turcotte & Frère
" 30	"	71289	L. E. Martel, 51 Rue St. Joseph, Quebec.	1/4 "	45	.....	Nat. Drug Co...

GROUND ALLSPICE.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					Tannic Acid.	No. of Sample.	Remarks, and Opinion of the Chief Analyst.
	Total Ash.	Volatile Oil.	Fixed Oil.	—	Microscopical Examination.			

R. J. WAUGH, INSPECTOR.

	p.c.	p.c.	p.c.			p.c.	
.....	4.30	3.21	7.33	.....	Allspice tissues only.....	76726	Genuine.
Wen-Z. Ella Brand	4.67	2.66	5.42	.....	" " .....	76727	"
Peerless Brand ...	4.70	2.53	6.19	.....	" " .....	76728	"
.....	4.68	2.75	5.27	.....	" " .....	76729	"
.....	4.30	3.04	6.31	.....	" " .....	76730	"
Sovereign Brand..	4.60	2.82	4.97	.....	" " .....	76731	"

JOHN C. FERGUSON, INSPECTOR.

	p.c.	p.c.	p.c.			p.c.	
Dalley's	4.42	3.70	5.50	.....	Allspice tissues only.....	78121	Genuine.
Dearborn's	4.64	2.90	5.34	.....	" " .....	78122	"
.....	4.54	3.80	6.15	.....	" " .....	78123	"
Signet Brand.....	4.36	3.72	6.00	.....	" " .....	78124	"
.....	4.64	3.12	5.68	.....	" " .....	78125	"
.....	4.55	2.56	4.43	.....	" " .....	78126	"
.....	5.02	1.97	6.20	.....	" " .....	78127	"
.....	4.55	1.94	6.22	.....	" " .....	78128	"
.....	4.26	3.09	5.06	.....	" " .....	78129	"
.....	4.09	3.96	6.96	.....	" " .....	78130	"

F. X. W. E. BELAND, INSPECTOR.

		Insoluble Ash in H.C.L.					
.....	6.01	0.51	.....	Cayenne pepper tissues only.	71285	Cayenne pepper.
.....	8.33	0.65	.....	Paprika tissues only	71286	Paprika.
.....	4.85	0.32	.....	Consists of a large pro- portion of maize starch and turmeric with a small amount of Pap- rika.	71287	Paprika. Adultera- ted.
.....	17.68	1.17	.....	Apparently Cayenne pepper tissues only.	71288	Sold as compound. Ash high.
.....	6.37	0.58	.....	Cayenne pepper tissues only.	71289	Cayenne pepper.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF QUEBEC CITY—

1917.							
Aug. 25	Piment (Allspice).	71279	Arthur Drolet, 714 St. Valier Quebec.	3 lb..	45	White Swan Spice & Cereals.	
" 30	"	71291	Martel & Dion, 109 Rue St. Joseph, Quebec.	3 "	45	Unknown.....	Unknown.....
" 30	"	71292	C. Belanger, 102 Rue Du Pont, Quebec.	3 "	45	"	"
" 30	"	71293	E. Paquet, 154 Rue Du Pont, Quebec.	3 "	45	S. H. Ewing & Sons, Montreal.	"
" 30	"	71294	A. J. Gagnon, 546 Rue St. Valier, Quebec.	3 "	53	Litster Pure Food Co., Toronto.	

DISTRICT OF QUEBEC PROVINCE—O. BROCHU,

Aug. 27	Piment.....	6460	Cyrille Girard, St. Raphael.	3 pkgs	15	N. Turcotte.	
Sept. 10	Pickling Spice.	5667	Dme Wilfrid Miron, St. Caut.	3 "	15	Pure Gold Mfg. Co.	
" 10	Epice.....	5676	C. Derosiers, St. Scholastique.	3 "	15	Lariviere & Freres	
" 10	"	5679	W. Sauve, St. Scholastique.	3 "	15	S. H. Ewing.....	
" 10	Spices.....	5681	Dme C. Clement, St. Scholastique.	3 "	15	McLaren's.....	
Aug. 28	Pickling Spice	7811	P. Morin, Cap. St. Ignace.	3 "	15	F. F. Dalley, Hamilton.	

DISTRICT OF THREE RIVERS—

Aug. 18	Allspice.....	7504	G. H. Read, St. Felix de Valois.	3 bxs.	45	Herron Leblanc Co. Ltd., Montreal.	
" 25	"	7534	J. A. Bellerose, St. Felix de Valois.	3 lb..	60		Chevalier & Pouliot, Joliette.
" 27	"	7536	Leon Bruneau, St. Felix de Valois.	3 "	75	F. F. Dalley, Ltd., Hamilton.	
" 29	Poivre rouge.	7542	Louis Lenault Cie, St. Felix de Valois.	3 "	38		J. Dufresne, Joliette.
" 29	"	7545	Ernest Asselir, St. Felix de Valois.	3 "	40		Chevalier & Pouliot, Joliette.
" 29	"	7546	George Dufresene, St. Felix de Valois.	3 "	75		J. Dufresne, Joliette.
" 31	"	7550	A. A. Boucher, Joliette.....	3 "	60		
Sept. 3	"	7554	L. Z. Magnan, Joliette.....	1 "	40	Herron Leblanc, Montreal.	
" 4	"	7562	Remi Beausoleil, St. Gabriel Brandon.	3 "	45	S. H. Ewing, Montreal.	

GROUND ALLSPICE.

Inspector's Report (Is not an expression of opinion.)	Results of Analysis.						No. of Sample.	Remarks, and Opinion of the Chief Analyst.
	Total Ash.	Insoluble Ash in H.C.L.	-	-	Microscopical Examination.	Tannic Acid.		

CONCLUDED.

p. c.	p. c.				p. c.	
8.69	1.42			Paprika tissues only.....	71279	Paprika. Ash high.
6.67	0.54			Cayenne pepper tissues only.	71291	Cayenne pepper.
7.92	0.18			" "	71292	" "
7.85	1.16			" "	71293	" "
7.72	0.32			Paprika tissues only.....	71294	Paprika.

N. CADIEUX, T. GENDREAU, TEMPORARY INSPECTORS.

				Mixed spices unground.....	6460	Mixed spices—un- ground.
				" "	5667	" "
				" "	5676	" "
				" "	5679	Badly worm eaten. Mixed spices whole.
				" "	5681	" "
				" "	7811	" "

DR. V. P. LAVALLEE, INSPECTOR.

	Total Ash.	Insoluble Ash.	Oil.			p. c.	No. of Sample.	Remarks.
			Volatile	Fixed				
	4.75	2.3	p. c. 1.75	p. c. 4.62	Allspice tissues only.....	9.6	7504	Genuine.
	7.82	3.05	1.4	9.95	Red pepper		7534	Cayenne pepper.
	6.39	1.6	1.4	15.6	"		7535	" "
	7.14	2.7	1.6	15.0	"		7542	" "
	5.6	1.2	1.4	17.9	Red pepper, paprika.....		7545	Paprika and Cay- enne.
	7.65	4.5	1.2	13.5	Red pepper		7546	Cayenne pepper.
	7.84	2.4	2.0	13.3	Paprika		7550	Paprika.
	7.96	3.1	1.6	14.3	Red pepper... ..		7554	Cayenne pepper.
	8.08	3.2	1.7	10.7	Paprika, red pepper... ..		7562	Paprika and Cay- enne.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF MONTREAL—							
1917.							
Aug. 22	Allspice	78936	Beauvais Lalonde & Cie, 336 St. James St., Montreal.	3 tins.	30		
" 22	"	78937	James Duncan, Lachine, P.Q.	3 "	30	McLaren's, Ltd.	
" 23	"	78938	Fraser, Viger Co., Ltd., 211 St. James St., Montreal.	3 "	60	Lazenby Sons, Ltd.	
" 24	"	78939	Rajah Tea Co., 2008 Church St., Montreal.	3 "	30	Pure Gold Mfg. Co.	
" 25	"	78940	W. Bertrand, 66 Bernard St., Montreal.	$\frac{3}{4}$ lb..	30		
" 27	"	78941	J. B. Valiquette, 16 Rachel St., E., Montreal.	$\frac{3}{4}$ "	30		Bergeron, Whisell & Co.
" 27	"	78942	Westminster Provision Co., Montreal West.	$\frac{3}{4}$ "	38		
" 27	"	78943	English Provision Co., 5227 Sherbrooke St., Montreal.	3 tins.	39	Gorman, Eckert Co., London.	
" 27	"	78944	J. H. Gascon, 1881 Notre Dame St., W., Montreal.	$\frac{3}{4}$ lb..	22		
" 27	"	78945	J. N. Chatrand, 114 Fulford St., Montreal.	$\frac{3}{4}$ "	30		

DISTRICT OF VALLEYFIELD—

Aug. 28	Allspice	78841	Co-operative Society, Valleyfield.	3 tins.	30	C. H. Cochrane Co., Ottawa.	
Sept. 5	"	78842	A. Moran, St. Johns, P.Q.	$\frac{3}{4}$ lb..	36		
" 5	"	78843	A. E. Goyette, Sherville, P.Q.	3 tins.	30		
" 5	"	78844	W. R. Simpson, Sherville, P.Q.	$\frac{3}{4}$ lb..	30		
" 7	"	78845	John Smail, Huntingdon.	3 tins.	30		
" 7	"	78846	E. C. McCoy, Huntingdon.	3 "	30		
" 7	"	78847	Jos. Cappiello, Huntingdon.	3 pkts.	30		
" 19	"	78848	A. Brien, Chambly Basin.	3 "	30		
" 26	"	78849	G. Hollingdrake, Greenfield Park, P.Q.	3 "	30		
" 26	"	78850	Albert Smith, Greenfield Park, P.Q.	3 "	30	McLaren's, Ltd.	

DISTRICT OF OTTAWA—

Aug. 25	Ground Allspice.	77593	A. Meighen & Bros., Perth, Ont.	3 pkgs	30	Vendors	
" 27	"	77596	J. Bambrick, Byward Market, Ottawa.	$\frac{3}{4}$ lb.	30	Dalton's, Toronto.	
" 27	"	77598	Wall & Co., Byward Market, Ottawa.	$\frac{3}{4}$ "	30	Cochrane & Co., Ottawa.	

GROUND ALLSPICE.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.	Volatile Oil.	Fixed Oil.	—	Microscopic Examination.			Tannic Acid.

J. J. COSTIGAN, INSPECTOR.

	p.c.	p.c.	p.c.			p.c.		
Prince of Wales...	4.77	1.4	7.1	.....	Allspice tissues only....	8.4	78936	Genuine.
.....	5.06	1.9	7.1	.....	" " .....	5.9	78937	Tannic Acid low.
.....	4.78	2.53	5.71	.....	" " .....	9.5	78938	Pass. Genuine.
.....	4.21	1.03	7.04	.....	" " .....	7.7	78939	"
.....	4.56	1.3	6.3	.....	" " .....	8.7	78940	"
.....	5.97	2.5	6.1	.....	" " .....	7.7	78941	"
.....	5.12	1.7	6.9	.....	" " .....	7.7	78942	"
.....	4.49	2.3	6.4	.....	" " .....	8.9	78943	"
.....	11.25	0.41	2.59	.....	Allspice and cocconut shells.	3.6	78944	Adulterated with cocconut shells.
.....	4.87	1.22	6.52	.....	Allspice tissues only.	8.7	78945	Genuine.

J. J. COSTIGAN, ACTING INSPECTOR

.....	4.48	1.7	5.6	.....	Allspice tissues only....	11.2	78841	Genuine.
.....	4.25	1.23	4.39	.....	" " .....	9.8	78842	"
White Swan.....	4.30	2.4	6.4	.....	" " .....	9.5	78843	"
.....	5.0	2.3	6.6	.....	" " .....	7.2	78844	"
Dalleys.....	4.57	2.0	5.3	.....	" " .....	12.7	78845	"
White Swan.....	4.31	2.9	6.0	.....	" " .....	10.4	78846	"
Trade Mills Brand	5.10	1.45	5.02	.....	" " .....	8.1	78847	"
Victoria Brand....	4.51	2.36	6.53	.....	" " .....	11.5	78848	"
Golden Seal.	4.72	1.6	6.2	.....	" " .....	8.4	78849	"
.....	5.01	2.1	5.4	.....	" " .....	7.2	78850	"

J. A. RICKEY, INSPECTOR.

.....	4.0	2.8	5.1	.....	Allspice tissues only....	8.2	77593	Genuine.
Labelled pure.....	4.49	2.7	5.6	.....	" " .....	9.2	77596	"
.....	4.47	3.8	4.7	.....	" " .....	11.0	77598	"

BULLETIN No. 403—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF OTTAWA—

1917-							
Aug. 28	Ground Allspice.	80402	D. G. Cowan, 1227 Bank St., Ottawa.	4	lb.	37	McGregor Harris, Toronto.
" 28	" ..	80404	Stewart & Mulligan, Billings' Bridge.	4	"	30	Unknown
" 29	" ..	80405	G. A. Ellis, Renfrew.....	4	"	30	Pure Gold Mfg. Co., Toronto.
" 29	" ..	80407	N. Dean & Sons, Renfrew ..	4	"	20	Dalley's, Hamilton.
" 29	" ..	80412	Dempsey & Co., Renfrew...	4	"	30	Gorman, Eckert & Co., London.
Sept. 1	" ..	80414	G. W. Runions, Cornwall...	4	"	30	Unknown
" 1	" ..	80415	Mrs. T. Dextras, Cornwall...	4	"	26	McGregor Harris, Toronto.

DISTRICT OF KINGSTON—

Aug. 20	Ground Allspice.	79921	W. J. Nesbitt, Kingston....	4	lb.	30	..... J. M. Lowes Co., Toronto.
" 21	" ..	79922	G. W. Bayes, Napanee	4	"	30	..... Dalton Bros., Toronto.
" 21	" ..	79923	J. G. Oliver, Napanee	4	"	30	Unknown
" 21	" ..	79924	The Beverly McDonald, Napanee.	4	"	30	"
" 21	" ..	79925	H. E. Fairfield, Belleville ..	4	"	30	..... J. Sloan Co., Belleville.
" 21	" ..	79926	J. H. P. Young, Belleville...	4	"	38	..... Pure Gold Co., Toronto.
" 22	" ..	79927	M. C. Nichols, Cobourg ...	4	"	30	..... Eby Blain Co., Toronto.
" 22	" ..	79928	W. Burnet, Cobourg.....	4	"	30	..... Pure Gold Co., Toronto.
" 22	" ..	79929	Estate Hugh Crozier, Cobourg.	4	"	30	..... Todhunter & Mitchell, Toronto.
" 22	" ..	79930	Thos. McIntosh, Cobourg...	4	"	30	..... H. B. Hayhoe, Toronto.

DISTRICT OF TORONTO—

Aug. 25	Ground Allspice.	80818	Loblaw Store, 558 Parliament St., Toronto.	4	lb.	45	.....
" 25	" ..	80819	C. R. Temperton, 1248 Gerard St., E., Toronto.	4	"	45	Pure Gold Mfg. Co., Toronto.
" 25	" ..	80820	T. Gostick, 284 Greenwood Ave., Toronto.	4	"	28	Dalton Bros., Toronto.
" 27	" ..	80821	G. Garbutt & Son, 120 Arthur St., Toronto.	4	"	20	Unknown
" 27	" ..	80822	G. C. Hardy, 242 Arthur St., Toronto.	4	"	30	Pure Gold Mfg. Co. Ltd., Toronto.

GROUND ALLSPICE.

Inspector's Report. (Is not an Ex- pression of opinion.)	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.	Volatile Oil.	Fixed Oil.	—	Microscopical Examination.	Tannic Acid.		

Concluded.

	p. c.	p. c.	p. c.			p. c.		
.....	4.19	2.7	5.7	.....	Allspice tissues only.....	8.9	80402	Genuine.
.....	4.16	1.5	6.2	.....	" " " " " " " "	9.2	80404	"
.....	4.21	2.3	6.9	.....	" " " " " " " "	9.5	80406	"
.....	3.91	2.5	6.6	.....	" " " " " " " "	10.2	80407	"
.....	4.04	2.0	6.7	.....	" " " " " " " "	10.9	80412	"
.....	3.92	2.5	6.4	.....	" " " " " " " "	6.9	80414	"
.....	4.66	2.0	7.4	.....	" " " " " " " "	9.9	80415	"

JAS. HOGAN, INSPECTOR.

.....	4.38	1.9	6.3	.....	Allspice tissues only.....	7.1	79921	Genuine.
.....	4.39	2.1	6.4	.....	" " " " " " " "	7.9	79922	"
.....	4.04	2.2	6.4	.....	" " " " " " " "	7.4	79923	"
.....	4.08	2.1	7.4	.....	Allspice tissues, some ground shells.	5.1	79924	Cocoanut shells in small amount. Adulterated.
.....	4.82	1.2	5.4	.....	Allspice tissues only. . .	9.8	79925	Genuine.
.....	4.69	2.3	4.8	.....	" " " " " " " "	8.1	79926	"
.....	4.44	1.6	5.6	.....	" " " " " " " "	8.0	79927	"
.....	5.24	1.7	5.0	.....	" " " " " " " "	9.2	79928	"
.....	4.84	2.0	5.7	.....	" " " " " " " "	6.9	79929	"
.....	4.61	1.3	6.4	.....	" " " " " " " "	7.8	79930	"

H. J. DAGER, INSPECTOR.

.....	4.73	1.5	5.8	.....	Allspice tissues only. . .	7.9	80818	Genuine.
.....	6.19	3.4	6.3	.....	" " " " " " " "	9.7	80819	"
.....	4.35	2.2	5.3	.....	" " " " " " " "	8.9	80820	"
.....	2.80	1.6	6.6	.....	Allspice, nutmeg and sugar (10.5%)	5.5	80821	A mixture of spices and sugar.
.....	5.02	2.6	5.7	.....	Allspice tissues only.....	8.7	80822	Genuine.

BULLETIN No. 403—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF TORONTO—

1917.							
Aug. 27	Ground Allspice.	80823	C. J. Ballard, 2 Westminister Ave., Toronto.	½ lb.	30	Todhunter, Mitchell Co., Ltd., Toronto.	
" 27	" ..	80824	H. Nitlett, 161 Sorauren Ave., Toronto.	½ "	25	Pure Gold Mfg. Co. Ltd., Toronto.	
" 27	" ..	80825	Garoin & Robinson, 1556 Queen St., W., Toronto.	½ "	30		Unknown.....
" 28	" ..	80826	Miller's Supply Co., 298 Dundas St., Toronto.	3 cans.	30	Dalton Bros., Toronto.	
" 28	" ..	80827	E. Caterine, 480 Runnymede St., West Toronto.	½ lb.	30	" "	

DISTRICT OF HAMILTON—

Sept. 4	Ground Allspice.	80880	H. D. Woods, Lucknow....	3 pks.	15	F. F. Dalley Co., Hamilton.	
" 4	" ..	80881	Peter McGaw, Kincardine.	½ lb.	45	I. X. L. Spice & Coffee Co., Ltd., London.	
" 5	" ..	80882	N. McInnes, Tiverton....	½ "	37		Eby, Blain, Ltd., Toronto.
" 5	" ..	80883	J. A. McKellar, Tiverton...	½ "	30		Gorman, Eckert, Co., London.
" 5	" ..	80884	J. M. Wells, Port Elgin....	½ "	30		Unknown.....
" 6	" ..	80885	John McVitte, Southampton.	½ "	30	Gorman, Eckert Co., London.	
" 6	" ..	80886	G. S. Nicholls, Paisley.....	½ "	30		Unknown.....
" 7	" ..	80887	W. M. Cameron, Cargill....	½ "	30		G. E. Fristol & Co., Hamilton.
" 7	" ..	80888	John Cornmans Chepstow...	½ "	30		Unknown. . . .
" 7	" ..	80872	W. J. McKeeman, Glammis.	½ "	30		"

DISTRICT OF WINDSOR—

Sept. 4	Ground Allspice.	65278	Isaac Johnson, Chatham, Ont.	½ lb.	30	I. X. L. Coffee Co., London.	
" 4	" ..	65280	Geo. Taylor, Chatham, Ont.	3 pkgs	15	Gorman Eckert Co., London.	
" 4	" ..	65282	Adams Bros., Chatham, Ont.	½ lb.	38	Unknown	
" 4	" ..	65287	T. J. Kelly, Chatham, Ont.	½ "	25	Dalley's, Hamilton	
" 4	" ..	65288	E. C. Gammage, Chatham, Ont.	½ "	30		T. Kenny & Co., Chatham, Ont.
" 5	" ..	65296	H. Benstein, Windsor, Ont.	½ "	38	Unknown	
" 6	" ..	65304	J. W. McKenny, Windsor, Ont.	3 pkgs	30	McLaren's, Hamilton.	
" 6	" ..	65307	Geo. Sawyer, Leamington ..	½ lb.	30		Gorman Eckert Co., London.
" 6	" ..	65310	H. H. Pickel, Leamington..	½ "	40	Gorman Eckert Co., London.	
" 7	" ..	65314	R. T. Moran " ..	½ "	30		J. F. Smyth, Windsor.

GROUND ALLSPICE.

Inspector's Report. (Is not an Ex- pression of opinion.)	Results of Analysis.						No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Total Ash.	Volatile Oil.	Fixed Oil.	—	Microscopical Examination.	Tannic Acid.		

Concluded.

	p. c.	p. c.	p. c.			p. c.		
.....	5.94	3.2	6.4	.....	Allspice tissues only.....	8.4	80823	Genuine.
.....	5.70	3.0	6.0	.....	" "	9.7	80824	"
.....	4.97	2.7	5.5	.....	" "	7.4	80825	"
.....	5.42	2.1	5.6	.....	" "	9.2	80826	"
.....	4.21	2.3	6.7	.....	" "	8.4	80827	"

H. J. DAGER, ACTING INSPECTOR.

	p. c.	p. c.	p. c.			p. c.		
.....	4.75	2.7	4.9	.....	Allspice tissues only.....	9.7	80880	Genuine.
.....	4.79	2.2	5.9	.....	" "	7.7	80881	"
.....	4.54	1.8	5.5	.....	" "	10.3	80882	"
.....	4.62	1.9	5.9	.....	" "	11.2	80883	"
.....	5.05	1.20	7.05	.....	" "	8.4	80884	"
.....	4.73	3.6	7.6	.....	" "	9.2	80885	"
.....	4.22	2.6	6.7	.....	" "	7.7	80886	"
.....	5.84	1.9	5.4	.....	" "	7.4	80887	"
.....	4.10	2.5	5.0	.....	" "	10.7	80888	"
.....	4.44	2.4	7.1	.....	" "	9.7	80872	"

JOHN TALBOT, INSPECTOR.

	p. c.	p. c.	p. c.			p. c.		
.....	4.78	1.5	6.5	.....	Allspice tissues only.....	9.9	65278	Genuine.
.....	4.72	1.2	5.0	.....	" "	9.7	65280	"
.....	4.45	1.8	6.5	.....	" "	9.9	65282	"
.....	4.71	2.5	5.9	.....	" "	10.0	65287	"
.....	5.55	3.7	5.1	.....	" "	10.2	65288	"
.....	5.57	2.1	5.0	.....	" "	9.4	65296	"
.....	4.75	2.1	4.8	.....	" "	9.7	65304	"
.....	4.25	1.8	6.6	.....	" "	9.9	65307	"
.....	4.48	3.1	6.3	.....	" "	10.1	65310	"
.....	4.76	2.5	4.8	.....	" "	9.8	65314	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NORTHERN ONTARIO—

1917							
Aug. 24	Ground Allspice.	78642	F. C. Preston Co., Haileybury.	3 cans	30	White Swan S. & C., Ltd., Toronto	
" 24	"	78646	A. J. Larson, Haileybury.	½ lb.	30	Todhunter & Mitchell, Toronto.	
" 25	"	78648	A. E. Adshead, Haileybury.	3 cans	30	Dalley's, Hamilton	
" 27	"	78651	Binkley & Co., New Liskeard.	3 "	30	Eby Blain Ltd., Toronto.	
" 27	"	78653	Watson Co., New Liskeard.	½ lb.	32	F. F. Dalley Co., Hamilton.	
" 27	"	78655	Grills Co., New Liskeard.	3 cans	30	Gorman Eckert Co., London.	
Sept. 11	"	78664	R. P. Graham, Cobalt.	3 "	30	Dalton Bros., Toronto.	
" 15	"	78667	J. K. Battah, Cobalt.	3 "	30	Pure Gold Mfg. Co., Toronto.	
" 18	"	78670	J. H. Leng, New Liskeard.	½ lb.	30	Medland Bros., Toronto.	

DISTRICT OF MANITOBA—

Aug. 30	Ground Allspice.	79554	Chambers Co., Hamiota, Man.	3 cans	30	Gold Standard, Winnipeg.	
" 30	"	79555	H. Parker, Oak River, Man.	3 "	35	Jobin Marrin Co., Winnipeg.	
Sept. 8	"	79556	P. McKay & Son, Swan River.	3 "	30	McLarens, Ltd., Hamilton.	
" 11	"	79557	J. C. Quigley, The Pas.	3 "	30	Blue Ribbon Co., Winnipeg.	
" 25	"	79558	D. G. McSkimmin, 128 Lip-ton St., Winnipeg, Man.	3 "	30	Dyson Co., Winnipeg.	
" 25	"	79559	S. T. Mayes, Wolseley ave., Winnipeg, Man.	3 "	30	Campbell Bros. & Wilson, Winnipeg.	
" 25	"	79560	A. F. Higgons, Beverly and Portage, Man.	3 "	30		
" 26	"	79561	Robertson & Co., Main St., Winnipeg, Man.	3 "	20		
" 26	"	79562	P. & B. Cash Stores, 767 Portage ave., Winnipeg, Man.	3 "	30	White Star Mfg. Co., Winnipeg.	
" 26	"	79563	Gillman & Co., 585 Portage ave., Winnipeg, Man.	3 "	30	Gorman Eckert, Winnipeg.	

DISTRICT OF SOUTHERN SASKATCHEWAN—

Aug. 28	Allspice.	76902	Fort Trading Co., Fort Qu'Appelle.	3 pkgs	30	Campbell-Wilson Ltd., Winnipeg.	Campbell Wilson & Strath-dee, Regina.
" 28	"	76907	The Hudson's Bay Co., Fort Qu'Appelle.	3 "	30		Hudson's Bay Co., Winnipeg.
" 28	"	76913	Tippling & Beldon, Balcarres.	½ lb.	30		Codville Co., Brandon.

GROUND ALLSPICE.

Inspector's Report. (Is not an Ex- pression of opinion).	Results of Analysis.						No. of Sample.	Remarks, and Opinion of the Chief Analyst.
	Total Ash.	Volatile Oil.	Fixed Oil.	—	Microscopical Examination.	Tannic Acid.		

THOS. E. ARMSTRONG, INSPECTOR.

	p. c.	p. c.	p. c.			p. c.		
.....	5.19	3.0	5.5	.....	Allspice tissues only.....	10.5	78642	Genuine.
.....	3.35	3.5	5.0	.....	" " .....	9.6	78646	"
.....	4.75	2.3	5.5	.....	" " .....	9.7	78648	"
Royal Spices Brand	4.41	1.50	5.01	.....	" " .....	8.0	78651	"
.....	4.90	1.8	6.1	.....	" " .....	7.7	78653	"
Club House Brand	4.22	1.4	5.0	.....	" " .....	12.8	78655	"
.....	4.39	2.5	6.2	.....	" " .....	7.7	78664	"
Regal Brand.	4.53	2.9	5.8	.....	" " .....	10.9	78667	"
.....	4.72	0.95	6.33	.....	" " .....	9.2	78670	"

J. B. COSGROVE, INSPECTOR.

.....	4.4	5.65	6.65	.....	Allspice tissues only.....	79554	Genuine.
.....	4.5	4.95	5.30	.....	" " .....	79555	"
.....	4.9	4.25	6.75	.....	" " .....	79556	"
.....	4.9	4.40	6.40	.....	" " .....	79557	"
Red Cross Brand..	4.95	4.30	6.30	.....	" " .....	79558	"
Red Shield Brand.	4.2	6.35	7.15	.....	" " .....	79559	"
Corona Service Brand. Pnt up for Vendor.	4.6	5.15	5.60	.....	" " .....	79560	"
.....	4.6	4.9	6.0	.....	" " .....	79561	"
.....	4.4	4.45	7.3	.....	" " .....	79562	"
.....	4.4	4.8	7.35	.....	" " .....	79563	"

L. H. HALL, INSPECTOR.

Royal Shield Brand.	3.8	4.1	6.3	.....	Allspice tissues only.....	76902	Genuine.
.....	4.5	4.1	5.4	.....	" " .....	76907	"
.....	4.1	5.0	5.3	.....	" " .....	76913	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF SOUTHERN SASKATCHEWAN—

1917.							
Aug. 28	Allspice....	76915	A. S. Drummond, Ltd., Balcarres.	3 pkgs	30	Gold Standard Mfg. Co., Winnipeg.	Codville Co., Brandon.
" 29	"	76917	The Hudson's Bay Co., Yorkton.	$\frac{3}{4}$ lb.	30	.....	Hudson's Bay Co., Winnipeg.
" 30	"	76925	M. Robstein, Yorkton.....	3 pkgs	30	White Star Mfg. Co., Winnipeg.	A. McDonald Co., Yorkton.
" 30	"	76930	Levi Beck, Yorkton.....	3 "	30	Pure Gold Mfg. Co., Winnipeg.	Manufacturer...
Sept. 21	"	76942	West End Grocery, Moose Jaw.	3 "	30	Gorman-Eckert Co., Winnipeg.	McDonald Crawford Co., Moose Jaw.
" 22	"	76946	McBrides, Ltd., South Hill, Moose Jaw.	3 "	30	No Vary Products Co., Minneapolis.	Moose Grocery Co., Moose Jaw.
" 22	" ...	76947	Geo. A. Tapley, Moose Jaw.	3 "	30	Gold Standard Mfg. Co., Winnipeg.	Codville Co., Moose Jaw.

DISTRICT OF NORTHERN SASKATCHEWAN—

Aug. 30	Allspice	78520	Thos. Holmes, Prince Albert	3 cans.	30	.....	Cameron & Heap, Prince Albert.
" 31	"	78527	Union Trading Co., Prince Albert.	3 "	30	Dalley's, Ltd., Hamilton.	.....
Sept. 1	"	78533	Prince Bros., Ltd., Battleford.	3 "	30	Blue Ribbon, Winnipeg.	.....
" 6	"	78535	F. R. McMillan, Saskatoon	3 "	30	Pure Gold, Toronto.	.....
" 8	"	78543	Hafford Trading Co., Hafford.	3 box's	30	Campbell Bros. & Wilson, Winnipeg	.....
" 12	"	78546	C. E. Boland, Denholm.	3 cans	30	Gorman Eckert Co., Winnipeg.	.....
" 20	"	78549	Dion Bros., Cut Knife	3 "	30	Campbell Bros. & Wilson, Winnipeg	.....
" 20	"	78552	E. A. Dillman, Cut Knife	3 "	30	Gold Standard Mfg. Co., Winnipeg.	.....
" 21	"	78556	S. Raymond, Carruthers	3 "	30	Gorman Eckert Co., Winnipeg.	.....
" 27	"	78559	St. B. Amos & Co., Kamiskistiquia.	3 "	30	.....	Cameron & Heap, Regina.
" 27	"	78564	A. Lindgren, Kamsack.	3 "	30	Dalley's, Ltd., Hamilton.	.....

DISTRICT OF ALBERTA—

Aug. 20	Allspice	52753	Kerr & Porterfield, Calgary.	3 tins.	30	Gorman Eckert Co., London.	.....
20	"	52754	S. G. Freeze, Calgary.	3 "	30	Blue Ribbon, Ltd., Winnipeg.	.....
23	"	52755	J. E. Grant, 817 3rd N.E., Calgary.	3 "	30	"	.....
23	"	52756	Clark & Son, 713 3rd N.E., Calgary.	3 "	30	Dalley's, Ltd., Hamilton.	.....

GROUND ALLSPICE.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					Tannic Acid.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Ash.	Volatile Oil.	Fixed Oil.	—	Microscopical Examination.			

Concluded.

	p. c.	p. c.	p. c.					
Gold Standard Brand.	4.4	5.8	4.9	....	Allspice tissues only	....	76915	Genuine.
.....	5.2	5.2	6.0	.....	" "	.....	76917	"
White Star Brand.	4.6	4.3	5.5	.....	" "	.....	76925	"
Pure Gold Brand..	4.5	4.5	6.4	.....	" "	.....	76930	"
Forest City Brand.	4.8	4.5	5.6	..	" "	.....	76942	"
No Vary Brand...	5.7	4.3	5.9	.....	" "	.....	76946	"
Gold Standard Brand.	4.5	4.4	5.9	.....	" "	.....	76947	"

J. M. DANIS, INSPECTOR.

.....	4.35	4.30	5.70	.....	Allspice tissues only	....	78520	Genuine.
.....	5.05	4.60	4.95	.....	"	.....	78527	"
.....	5.55	5.25	6.05	.....	"	.....	78533	"
.....	5.25	3.60	5.95	.....	"	.....	78535	"
.....	4.60	4.40	6.80	.....	"	.....	78543	"
.....	4.60	3.85	5.90	.....	"	.....	78546	"
.....	4.45	4.40	6.20	.....	"	.....	78549	"
.....	4.45	4.50	5.30	.....	"	.....	78552	"
.....	5.00	3.05	5.70	.....	"	.....	78556	"
.....	5.60	3.70	5.55	.....	"	.....	78559	"
.....	4.70	3.05	5.05	.....	"	.....	78564	"

A. W. R. MARKLEY, INSPECTOR.

Club House Brand.	5.0	3.7	5.7	.....	Allspice tissues only	....	52753	Genuine.
Blue Ribbon Brand	4.8	3.6	5.8	.....	"	.....	52754	"
"	4.4	4.5	5.2	.....	"	.....	52755	"
.....	4.5	5.0	5.4	.....	"	.....	52756	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF ALBERTA—

1917.								
Aug. 23	Allspice . . .	52757	Geo. A. Miller, 619 3rd N.E., Calgary.	3 tins.	30	Imperial Spice Co., Hamilton.		
" 29	" . . .	52758	F. W. Maggo, Cochrane, Alta.	3 "	30	Campbell Bros & Wilson, Winnipeg.		
" 29	" . . .	52759	Fisher & Co., Cochrane, Alta.	3 "	25	Blue Ribbon, Ltd., Winnipeg.		
" 30	" . . .	52760	W. Wood Roberts, Calgary.	¼ lb.	30		Stimington & Co., Calgary.	
" 30	" . . .	52761	Dominion Grocery, 17th Ave. W., Calgary.	3 tins.	30	Blue Ribbon, Ltd., Winnipeg.		
" 31	" . . .	52762	Producers Outlet, 2121 4th st. W., Calgary.	3 "	30	Tuxedo Co., Ltd., Calgary.		

DISTRICT OF ROCKY MOUNTAINS—

Sept. 17	Allspice . . .	68463	J. J. Ling, Ashcroft.	3 tins.	30	Empress Mfg. Co., Vancouver.		
" 17	" . . .	68466	Harvey Bailey Ltd., Ashcroft.	3 "	45	Dalley Products, Hamilton.		
" 17	" . . .	68467	" " "	3 "	45	Wm. Braid, & Co., Vancouver.		
" 18	" . . .	68484	City Cash Grocery, Kamloops.	3 "	45	Wilson Bros., Victoria.		
" 20	" . . .	68491	A. Hobson, Revelstoke.	3 "	45	W. H. Malkin & Co., Vancouver.		
" 26	" . . .	68498	R. A. Smith, Moyie.	3 "	40	Georgeson Co., Calgary.		
" 26	" . . .	68517	Hudson's Bay Co., Nelson.	¼ lb.	30	Hudson's Bay Co., Vancouver.		

DISTRICT OF VANCOUVER—

Oct. 29	Allspice	76146	S. Larsen, 321 Hastings St E., Vancouver.	3 cans.	30	Kelly Douglas & Co., Vancouver.		
" 29	" . . .	76147	Macartney & Co., 515 Broadway W., Vancouver.	3 "	35	Gorman Eckert Co., London.		
" 30	" . . .	76148	Seymour Grocery, Seymour & Nelson, Van.	3 "	30	W. H. Malkin Co., Vancouver.		
" 30	" . . .	76149	W. W. Thompson, 2441 Granville St., Vancouver.	3 "	30	Empress Mfg. Co., Vancouver.		
" 30	" . . .	76150	A. B. Tigar, 829 Broadway W., Vancouver.	½ lb.	20	Unknown.		
" 30	" . . .	76151	F. C. Wood, 1077 Broadway W., Vancouver.	3 cans.	30	Dyson Co., Winnipeg.		
Nov. 7	" . . .	76152	Woodward Dept. Stores, Hastings & Abbott, Van.	3 "	30	Empress Mfg. Co., Vancouver.		
" 9	" . . .	76153	David Spencer, Ltd., Vancouver.	½ lb.	20	W. H. Malkin Co., Vancouver.		
" 9	" . . .	76154	Hudson's Bay Co., Vancouver.	1 can.	10	Vendors.		
" 9	" . . .	76155	J. Behar, 702 Richards St., Vancouver.	3 cans.	45	W. H. Malkin Co., Vancouver.		

GROUND ALLSPICE.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Ash.	Volatile Oil.	Fixed Oil.	—	Microscopical Examination.			Tannic Acid.

Concluded.

	p.c.	p.c.	p.c.				
Red Feather...	4.4	4.5	4.7	.....	Allspice tissues only	52757	Genuine.
Royal Shield. ...	4.1	3.7	5.4	.....	" .....	52758	"
Blue Ribbon Brand	5.1	4.3	4.8	.....	" .....	52759	"
.....	4.7	3.4	6.1	.....	" .....	52760	"
Blue Ribbon Brand	5.0	4.0	5.9	.....	" .....	52761	"
Tuxedo Brand....	4.7	3.9	5.5	.....	" .....	52762	"

THOS. PARKER, INSPECTOR.

.....	4.07	2.25	6.67	.....	Pimenta tissues.	68463	Genuine.
.....	4.12	3.42	5.10	.....	" .....	68466	"
.....	3.82	2.25	5.52	.....	" .....	68467	"
.....	3.50	2.35	5.15	.....	" .....	68484	"
Malkins Best....	4.07	4.17	5.47	.....	" .....	68491	"
Tuxedo Brand....	4.67	3.55	7.35	.....	" .....	68498	"
Imperial Brand...	3.45	2.25	5.82	.....	" .....	68517	"

G. G. ARMYTAGE, INSPECTOR.

.....	4.17	2.60	5.70	.....	Pimenta tissues.	76146	Genuine.
.....	4.57	1.85	5.82	.....	" .....	76147	"
.....	4.10	2.90	6.15	.....	" .....	76148	"
.....	3.07	3.32	6.90	.....	" .....	76149	"
.....	4.55	1.85	4.67	.....	" .....	76150	"
.....	4.87	1.32	6.77	.....	" .....	76151	"
.....	4.20	2.67	4.95	.....	" .....	76152	"
.....	4.10	2.65	5.75	.....	" .....	76153	"
.....	4.35	3.15	6.85	.....	" .....	76154	"
.....	4.35	3.70	5.70	.....	" .....	76155	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF VICTORIA—

1917.							
Oct. 19	Allspice	75972	W. R. Johnson, 2067 Cud- bora Bay Rd., Victoria.	3 cans.	30	Wilson Bros., Vic- toria	.....
" 19	" ...	75973	Oak Bay Grocery, 2252 Oak Bay Ave., Victoria.	3 "	30	R. P. Rithet & Co., Victoria.	.....
" 19	"	75974	Mercer & Rogers, 1004 1/2 Rus- sel St., Victoria.	3 "	30	Pioneer Coffee and Spice Mills, Vic- toria.	.....
" 20	"	75975	Fenerty Bros., Oak Bay Junction, Victoria.	1/2 lb.	25	Unknown .....	.....
" 20	"	75976	McKenzie St. Grocery, 325 Cook St., Victoria.	1/2 "	30	Kelly, Douglas & Co., Vancouver.	.....
" 22	"	75977	Quadra Hillside Grocery, 1102 Hillside Ave., Vic- toria.	1/2 "	30	W. H. Malkin & Co., Vancouver.	.....
" 23	"	75978	People's Cash Grocery, 749 Yates St., Victoria.	1/2 "	33	H. O. Kirkham & Co., Victoria.	.....
" 23	1	75979	E. B. Jones, 1802 Cook St., Victoria.	3 cans.	30	Pioneer Coffee and Spice Mills, Vic- toria.	.....
" 24	"	75980	Fairfield Grocery, 259 Cook St., Victoria.	3 "	30	" " .....	.....
Nov. 2	"	75981	Harvey Trading Co., Nanaimo.	3 "	30	W. A. Jameson Coffee Co., Vic- toria.	.....

GROUND ALLSPICE.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.					No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Ash.	Volatile Oil	Fixed Oil.	—	Microscopical Exam- ination.			Tannic Acid.

G. G. ARMYTAGE, ACTING INSPECTOR.

	p. c.	p. c.	p. c.				
.....	3.77	2.45	5.72	.....	Pimenta tissues.....	75972	Genuine.
.....	3.62	2.55	6.70	.....	" .....	75973	"
.....	3.82	2.35	6.65	.....	" .....	75974	"
.....	4.17	2.50	6.47	.....	" .....	75975	"
.....	4.37	1.87	5.25	.....	" .....	75976	"
.....	3.97	2.30	5.17	.....	" .....	75977	"
.....	3.02	3.68	6.71	.....	" .....	75978	"
.....	3.52	2.02	6.80	.....	" .....	75979	"
.....	4.07	3.25	5.27	.....	" .....	75980	"
.....	4.10	3.57	6.60	.....	" .....	75981	"

NOTES AND COMMENTS.

Under this heading, as occasion arises, the Bulletins issued by this Department will contain, as an appendix, such comment as may seem necessary or advisable upon matters relating to the work of the Department in connection with the administration of the Adulteration Act, the Fertilizers Act, the Feeding Stuffs Act or the Proprietary Medicines Act.

It frequently happens that correspondents ask information regarding the above Acts, of such nature that the matter in question possesses general interest, and comment upon it would prove acceptable and useful to others than the immediate questioner. In such cases the reply may find a place in these columns. For convenience of reference these notes will be numbered in series.

A. MCGILL,
Chief Analyst.

